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| Communicating what we know about: Linear Approximation Use Linear Approximation to approximate the value of | |
| Algebraic – Linearization | Numeric |
| 1. Find the slope of the tangent line @ x = 1 2. Find f(1) 3. Write the equation for the tangent line: | a.) Use the linear equation to approximate the value of f(x) at x = 1.1.  b.) Check the percentage error: |
| Graph | Communicate |
| a.)Sketch a graph of the function (use your graphing calculator)  b.) Sketch the tangent line @ x = 1 | 1. Did your linear approximation over estimate or under estimate the real value? 2. Can you explain, based on the curvature of the function, why the tangent line over or under approximated? |